

Abstract**Alkyd resin emulsions and uses thereof**

The invention relates to a two-component water paint system by means of which essentially bubble-free paint films having a thickness of at least 120 μm can be produced reliably. The water paint system comprises an aqueous emulsion of a hydroxy-functional alkyd resin wherein the hydroxy-functional alkyd resin can be obtained from an oleic or fatty acid component, a polyvalent alcohol, a polyether polyol having a molecular weight of 400 to 8,000, a monobasic carboxylic acid and a dicarboxylic acid or the anhydride thereof.

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